Noble (Ges. H.)

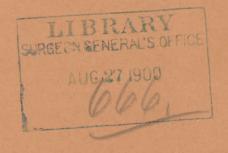
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ONE HUNDRED AND SIXTY-SIX CASES OF CANCER OF THE PREGNANT UTERUS OCCURRING SINCE 1886.

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My attention was turned to this subject by four cases that came under my observation, one of which was the vaginal hysterectomy, post-partum, reported to this Association one year ago; the others, one of which was a vaginal hysterectomy for incipient cancer of the pregnant uterus, were reported to the Atlanta Obstetrical Society some time in the past.

The success in these cases has encouraged me to look more carefully into the treatment, etc., and as a result report one hundred and sixty-six cases of cancer of the pregnant uterus which have occurred since the year 1886, the time of the Bar thesis.

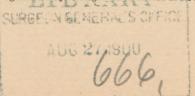
I shall confine this report mainly to the statistics of the treatment and results, referring you to Bar, Cohnstein, and others for information concerning the age, the period of recurrence, the period of abortions, etc.

There were twelve partial amputations of the cervix in the first seven months of pregnancy, averaging five and one-third months.

Ninety-one and six-tenths per cent. of the mothers recovered from the operations; 8.3 per cent. died; 66.6 per cent. went to full term, one child dying subsequently; and 41.6 per cent. aborted (one conception of six months living, Case No. 11).

Two of the mothers had subsequent operations for the removal of the cancer, but recurrence obtained in both cases. Another conceived a second time and died of peritonitis thirteen days after confinement.

^{*} Read before the Southern Surgical and Gynecological Association in November, 1895.



Of the three cases of intravaginal amputation of the cervix, two recovered from the operations, giving a mortality of 33.3 per cent.; the children the same.

One mother died of peritonitis, one died suddenly six weeks after confinement, and the third had two subsequent operations for removal of the malignancy, making an ultimate mortality of 66.6 per cent.—possibly 100 per cent.

The intravaginal amputations give a combined mortality from operations, of mothers 19.3 per cent., of infants 40 per cent. The above fifteen cases were operated upon at an early stage of the disease (or at a time when the conditions were most favorable for any operative measure), with an ultimate maternal mortality of 60 per cent.; that of the babies 33.3 per cent. (See Table I.)

Sixteen supravaginal amputations were done prior to the seventh month, with a mortality of 6.2 per cent.; six had recurrence of the disease, three had no return, and seven were not observed; there was, therefore, an ultimate mortality of 66.6 per cent. in the nine cases in which the records are complete; thirteen cases were lost, mortality 82.5 per cent. Of the remaining three, one went to full term, 6 per cent., and the other two were not mentioned.

One case aborted thirty-five days after conception, aborted again in forty days; conceived a third time, was delivered normally, and was well five years afterward. These cases were also in the early stages of the disease when the portio vaginalis alone was involved, thus presenting a fair opportunity for testing the merits of the operation. (See Table II.)

There were three cases of supravaginal amputation of the cervix in puerperal state, but the data are not sufficiently complete to give very satisfactory information. Two were operated upon immediately after the confinement, one dying in seven days; the other was not recorded. The cervix in the remaining case was removed three weeks after the confinement and died two months later. The child in this case is the only one recorded as living. The mortality is 66.6 per cent. for both mothers and children. (See Table III.)

There were twenty-three vaginal hysterectomies. In two cases the results are not recorded, leaving twenty-one cases, all successful—mortality nil.

The statistics by Pfannenstiel* give a mortality of 8.3 per cent. in thirty-six cases since 1882. Of the ultimate results two had recurrence as follows: one in eighteen months, died; one in twenty-nine months, died.

Seven others were well when examined, as follows: two in one year; two in one and one-half years; one in two years; one in four years; one in four and one-third years.

The period of gestation at which the operations were done was as follows: one to two months, eight cases; two and one-half to three months, seven cases; three and one-half to four and one-half months, three cases. The hysterectomies were done before any very rapid extension or growth of the disease had taken place, hence the favorable results; mortality 23.4 per cent. at the end of one year. On throwing out the two cases that were well at the end of one year we have (of the recorded results) five recoveries and two deaths, or a mortality of 40 per cent. in eighteen months. Again throwing out the two cases that were well at eighteen months, we find a mortality at the end of the second year of 66.6 per cent. In this estimate all the living cases that have had no recurrences and have not gone two years since the operation are thrown out. Doubtless some of these have been permanently cured, and would reduce the percentage if accessible.

This is a very good showing for vaginal hysterectomy, which seems to be keeping pace with the advance of surgery; thus prior to 1882 the immediate mortality was, according to Gusserow,† Duncan,‡ and others, 23 to 28 per cent. Later, Fritsch§ reported 16 per cent.; next, Pfannenstiel || estimated it at 8.3 per cent.; then Fabbri, ** Modena, made it 4.1 per cent.; and, finally, the writer reports twenty-one cases without a death. (See Table IV.)

There were seven cases of vaginal hysterectomy in the puerperal period from fourteen to twenty days after abortion or delivery; all recovered. The cancers were in an incipient stage and the wombs small, so that in these respects the operations were under favorable

^{*}Bar thesis.

[†] Gusserow, "Die Neubildungen des Uterus," Stuttgart, 1886.

[#] Obstetrical Transactions, 1885.

[§] Bar thesis, Paris.

^{||} Ibid.

^{**} American Journal of Obstetrics and Diseases of Women, No. 200, p. 288.

conditions. The chief objections to operating in the puerperal state are the increased vascularity of the tissues, the usually worn down condition of the patient, and the difficulty experienced in effectually sterilizing the vagina, constantly bathed in foul smelling, septic lochia, etc. (See Table V.)

So far there is one case of vaginal hysterectomy post-partum (done seventy-two hours after confinement). This one made a very fortunate recovery, though desperate and apparently unfavorable (case No. 63) by the writer. These eight cases without a death demonstrate that we need not fear to operate during the puerperal period when there is a reasonable hope for success. (See Table VI.)

The total number of abdominal hysterectomies is sixteen; twelve of these were Freund's operation, one after Mackenrodt's method, and the remainder not described. Of eleven cases seven died from the operation, making the death-rate 43.7 per cent. One case had enchondroma of the pelvis; another had return of the cancer in one year; and a third had a return in a few months and died seven days after an operation for ileus due to cancer of the intestines. These three are the only ones with complete records, therefore it is impossible to give an estimate of the ultimate recoveries. The products of conception were all lost. (See Table VII.)

Cæsarean section was done forty-three times, as follows: conservative (or Sänger), twenty-six; Porro, nine; Freund's, eight times. Of the twenty-six conservative operations seventeen died, seven recovered; in two the results are not recorded, and one was dead before the operation was performed. Mortality in twenty-three cases, 43.7 per cent. The high death-rate is evidently due to the fact that these cases are usually exhausted from prolonged labor, sepsis, etc., which unfits them for operations of this magnitude, for in the cases that do recover the wound heals kindly. In addition to the causes just mentioned, the chances for complications to arise subsequent to the operations are very much increased; thus the liability to secondary hemorrhage and sepsis is much greater than in the non-malignant. This is illustrated by the fact that of the sixteen deaths, three died of peritonitis, two from hemorrhage subsequent to the operations, one from anemia, and two from exhaustion. Excluding the three cases of peritonitis as a factor in the death-rate of all the abdominal operations, 25 per cent. of the deaths were caused by complications not common to the non-malignant subject, and doubtless it would appear greater if the immediate cause was known in all the cases. All cases dying at the end of three weeks and under are recorded in the list of the dead. One that died at the end of two months is recorded as recovered, having safely passed the effects of the operation. Of the twenty-six cases, twenty-three babies were born alive, three dead, and two died respectively two weeks and two months afterward—mortality 11.5 per cent. (See Table VIII.)

The number of recoveries in the Cæsarean-Porro operations were four; deaths, five, or mortality of 55.5 per cent. One of the recoveries went insane, after fourteen days, from chronic alcoholism. These cases were more favorable than those upon which the conservative operation was done, five of the nine having the cervix only involved.

Of the conceptions seven were saved (twins in one instance), three lost, and one not stated, giving a mortality of 30 per cent. (See Table IX.)

In eight Cæsarean sections by the Freund method there were three recoveries and five deaths, giving a mortality of 62.5 per cent. Out of this number five babies were saved, mortality 42.8 per cent.; six of these cases were complicated, four by extensive exudates in the pelvis, one dying the next day with peritonitis (pre-existing?), with a temperature of 39.5 C., another had been in labor seven days, while still another was very weak and anemic.

This is an unfair test for Freund's operation, some of them being unfit for any attempt at radical operation, especially the four with extensive exudates in the vaginal walls. If these were thrown out (with three deaths and one recovery) the mortality would be slightly reduced. Thirty-four chilrdren were born alive, eight died, and two were not recorded, making a total of forty-four, there being twins in one case. This gives an aggregate mortality of 22 per cent.

Of the forty-three cases of Cæsarean section many were done regardless of the kind of operation best suited to them; for instance,

there were seven cases of the conservative operation when the portio vaginalis or cervix uteri alone was involved. Total hysterectomy might have been done with hope of ultimate recovery in some of them.

Again, Freund's operation was done in four cases where the exudate or disease had extended to the surrounding parts, which increased the death-rate of the operations done by this method. They were better suited to the Porro or to the conservative operations. In five of the Porro it is possible that total hysterectomy might have been effected, as the parauterine tissues were not involved. This perhaps is not an unjust criticism, for the operations were all done in recent years and at a time surgery was making rapid strides toward perfection; especially is this applicable to those done in the last few years, as they should have profited by previous results. While total extirpation following Cæsarean section may not give as small a mortality in the immediate results as the conservative operation, I feel assured that in properly selected cases it is the ideal operation where the fetus can be born per vias naturales. It offers some hope to the mother.

According to these figures the conservative Cæsarean operation is unquestionably the safest of the three, so far as it concerns the mother. It ought, therefore, to be employed in all cases with obstruction to the birth of the child by extensive exudates or where there is not a reasonable hope of eradicating the malignancy.

Porro's operation is supposed to diminish sepsis in the cavity of the uterus, but that is counterbalanced by a suppurating stump in the abdominal wound.

If, therefore, it is a question of election between the two latter operations, the feebleness or weakened physical forces of the patient ought to decide in favor of the conservative Cæsarean operation.

It might be said, however, that there are not a sufficient number of Porro operations in these statistics to give a fair estimate of its value. I must confess that I was prejudiced against the conservative operation as done in the past, regarding it in some instances a reckless abandonment of the mother for the sake of an often undeveloped, ill-nourished offspring that may soon die or inherit

the malignancy. But such is not the case when the mother's condition is hopeless; the child's interest must then be subserved. (See Table X.)

There were three forceps deliveries with previous operations, two by incisions and one curetting. Severe bleeding occurred in the two cases of incisions, one mother dying in twelve hours, and in the other case the child was lost. The remaining case was successful, also an additional one without a previous operation. Estimated results in such a small collection are very uncertain, but, as far as they go, they bear out the claim that the use of the forceps is attended with some danger, chiefly from rupture of the diseased cervix and as a carrier of infection. They also support the claim of Baudelocque* that 75 per cent. of mothers and 50 per cent. of children recover. (See Table XI.)

I have encountered but one instance of amputation of the anterior lip during labor, resulting in the recovery of the mother and death of the child.

At five different times tumors were removed intra-partum by scissors, curette, forceps, thermocautery, etc., with four immediate recoveries of both mother and child. The case that died was a tumor of the cervix and vagina, which was partially removed; mortality 20 per cent. (See Table XII.)

Incision of the cervix is a subject that is likely to present itself for consideration in a great many cases at or near the end of gestation. It is therefore one of considerable importance to the child and also to the mother, as it may be the means of evacuating the uterus preparatory to a subsequent extirpation. Seven cases with five immediate recoveries (mortality 28.5 per cent.) are shown in this list. Hemorrhage is the great danger to be feared; the two deaths in the list are chargeable to it, dying respectively in two and twelve hours. Another case was forcibly dilated by the hand, and the uterus ruptured through into the bladder and peritoneal cavity. She lived for three and one-half months, and is therefore on the list of immediate recoveries. Two others died respectively in five weeks and in two years. The final results were death in all the cases fully recorded. Several had protracted confinements, as fol-

^{*} Taken from Charpentier's "Cyclopedia of Obstetrics and Gynecology," vol. iii., p. 168.

lows: one was in labor thirty-six hours; one in labor one and one-half days; one in labor six days; one in labor eight days. To this is ascribed in a very large measure the death of three babies. The infantile mortality was 35 per cent. After incisions the babies were delivered as follows: four by turning, with one death; one by extraction, with one death; one by forceps, with one death; two spontaneously, with one death. Of the seven cases, four were dead within three and one-half months after labor. It appears that after the cutting the hemorrhage is so great that there is a demand for immediate delivery or plugging of the womb with the extremities of the child for the purpose of controlling it. (See Table XIII.)

Five induced abortions have been encountered, with a mortality of 20 per cent., the death in this case being due to puerperal fever. One case had a carcinoma the size of a hazelnut, successfully removed on the seventh day of childbed. The woman conceived again, and was delivered three years later at full term. One uterus had a deep rupture of the cervix, to which the curette and cautery were applied, resulting in normal childbed. The ultimate results are unknown, except in the one case which was cured by removal of the tumor and was well at the end of three years. As abortion destroys the child and does not materially benefit the mother, it becomes a question of doubtful utility, especially in cases that are amenable to other methods of treatment. (See Table XIV.)

Lewis,* of New Orleans, states that about 40 per cent. of all cases abort spontaneously.

Gusserow on Cohnstein says it is about 35 per cent., only 32 per cent. of the children being born alive, and hardly 20 per cent. lived until their mothers left the bed. "Here we have 20 per cent. of living children, and one-half of them without mothers."

The expectant plan of treatment presents a very good showing—that is, twenty-one cases with nineteen recoveries, two deaths, making a mortality of 10.5 per cent., including five cases under seven months of gestation, or 14.2 per cent. by excluding the five latter cases. Of the twenty-one cases the disease was confined to the cervix or a portion of the same, only two of which were extensive, leaving fifteen cases limited in extent; three of the re-

^{*}Charpentier's "Cyclopedia of Obstetrics and Gynecology," vol. iii., p. 166.

maining had invaded the neighboring tissues, and one was not stated. Thus the comparatively low mortality is explained, for a like number of advanced cases would have shown a much more woful set of figures.

Charpentier* states that in forty-seven cases twelve died of rupture of the uterus and three of laceration of the cervix, or 31.9 per cent. Chantreuil places the maternal mortality at 36.7 per cent., and the writer at 24.3 per cent, the average of which is 30.4 per cent, childbed mortality.

After confinement 35 per cent died within three months of cancer, 28.5 per cent. of others had recurrences, while the remainder were not observed; thus 64.4 per cent. were either dead or in a helpless condition soon after childbed.

Of the sixteen recoveries among the cases advanced to seven months of gestation, nine succumbed to the disease, one died of an operation, and six are not reported; thus no final cures are to be found in the list of those treated by the expectant plan. (See Table XV.)

The very good showing has changed into a very poor one.

Chantreuil places the infantile mortality at 60 per cent., Cohnstein at 57 per cent., Hermann at 40 per cent., the writer at 50 per cent., making an aggreate mortality of 51.8 per cent.

Cohnstein (Bar thesis) states that 68 per cent. go to full term, and Hermann puts it at 28.3 per cent., which gives an average of 48.1 per cent. Then if only 48.1 per cent. of pregnancies go on to full term and 51.8 per cent. of these die, the estimate of successful issue is 24.8 per cent. of all the pregnancies in the cancerous uterus.

The best way to arrive at a conclusion as to the most satisfactory method of conducting a case of this sort is first to exclude all the operative measures that have resulted in high death-rate and accomplish but little good. Artificial abortion secures to the mother very little reduction in the childbed mortality, and defers death only for a limited time. When it is done with a view to subsequent extirpation the advantages gained in the reduction of the size of the womb are counterbalanced by loss of valuable time and

^{*}Charpentier's "Encyclopedia of Obstetrics and Gynecology," vol. iii., p. 167.

puerperal fever; and as the uterus can be extirpated as safely during pregnancy as at other times, artificial abortion is worse than useless. So also should amputations and partial amputations of the cervix be discarded if any hope for the mother remains. It is true that a few cases have been cured by this means, but the number is so small that it will not pay for the chance it has thrown away for saving the mother's life. In like manner all "dilly-dally" methods, such as curetting and cutting off the exuberant growths, should be eschewed as dangerous despoilers of time and opportunity. The next consideration is whether we should act in the interest of the mother or the child, or both. In the incipiency of the disease, when the mother's chances are good, give her the benefit of it. Late in the disease, when the mother's case is hopeless, look to the interest of the child. Between these will be found cases of doubt in which there will be room for the exercise of judgment. Careful perusal of the statistics will show that vaginal hysterectomy is the most satisfactory means of securing permanent relief in the early period of gestation. Next to it is abdominal hysterectomy in suitable cases. The former gives an immediate mortality of 4 per cent. and an ultimate recovery of 33.3 per cent. at the end of two years, but the conceptions are all destroyed. So we have here a comparison, upon the one hand, of 33.3 per cent. of ultimate recoveries of the mothers under vaginal hysterectomy, and, upon the other hand, 20 per cent. of ultimate recoveries of the children under the expectant treatment, which proves the former decidedly preferable.

At the close of gestation, when the mother's case is hopeless, she should be delivered by such means as will best serve the child's interest, though her immediate safety and comfort should not be disregarded. In instances of partial obstruction of the cervix incision may answer; when the obstruction is complete, Cæsarean section is indicated. Of the three methods, the conservative gives the best results, the infantile mortality being 11.5 per cent., against 50 per cent. of the expectant treatment. Or, out of sixty mixed operations forty-four children were born alive (70.3 per cent.), showing that any of the operative measures for delivering the fetus is superior to the expectant treatment.

In the doubtful cases the fetus may be near the period of viability

and the mother's chance hopeful. In that case gestation might be continued until the child is viable, when the uterus should be evacuated and afterwards removed. This opinion is sustained by the success attained in operations done in the puerperal state, all the hysterectomies recovering.

Thus, a short summary shows that vaginal hysterectomy should be safe in the early months of pregnancy and the puerperal state, when there is a reasonable hope for the mother.

The abdominal hysterectomy should be done under the above conditions when the uterus is too large to be rapidly and safely removed through the vagina.

That at or near the end of pregnancy Cæsarean section (conservative) should be resorted to when the child's interest is to be considered.

That Cæsarean section with Freund's operation is permissible when the disease is confined to the uterus and the child viable.

That in doubtful cases cutting of the cervix and rapid delivery may be judicious when the incision can be made in unulcerated or non-infiltrated tissue.

That as there are four chances to one against the life of the fetus, and as an equal or greater number of mothers may be ultimately cured in the early stages of the disease, the safety of the fetus should not be allowed to hazard the life of the mother.

And that, upon the other hand, the futile efforts directed to the interest of the mother when her case is hopeless should not jeopardize the safety of the fetus in the latter months of pregnancy.

186 South Pryor Street.

OPERATIONS UPON THE CERVIX UTERI.

TABLT I .- INTRAVAGINAL-PARTIAL AMPUTATION OR REMOVAL.

vagina, pamputated above			Remarks,	Death of mother caused by peritonitis,	Carcinoma Mother died suddenly after six weeks.	Subsequently two operations to remove remaining portions of cancer. Forceps delivery.	
Anterior vagina.	-	_		Death of n	a Mother o	Subsequer removement	- i
	8 carci- noma. 4 unknown.		Diagnosis,	0 0 0	Carcinom	0 0 0 0 0 0 0	1 carci- noma. 2 unknown.
6 mos.		LIS.	Time of gesta-tion.	7 mos.	som s	4 mos.	
	f bortions 5 returned. dead. 7 unknown.	TIO VAGINA	Recur-	7 mos.	Full term, Died in six 5 mos.	Returned.	2 full term. 2 returned. 1 died.
Abortion 3. wks. after, after, conception Abortion in 3 weeks.	4 abortions 1 dead.	IONS OF POR	Result, foctus.	Died.		Full term.	2 full term. 1 died.
Recov.	1 B.	AMPUTAT	Result, mother	Died.	Recov. from	Recov- ered.	2 R. 1 D.
Amputat'n Recov Abortion 3 6 mos. ant. lip dreed after living conception ant. lip 3 weeks.	(supra- vaginal).	INTRAVAGINAL AMPUTATIONS OF PORTIO VAGINALIS.	Operation. Result, mother	Amputat'n (galvano- caustic)	of portio. Amputat'n for portio.	Amputat'n Recovof portio.	S cases,
	cervix, (supra- vaginal)	TNI	Location of cancer.	Cervix.	Cervix.	Posterior lip.	3 CAS e3.
Taken from Ann.de Gyn. [Anterior et d'Obstet, Paris, 1891, lip, xli.,p. 187 (c. H. Stratz). Zeitschrift für Geburt. Anterior shiffe und Gynäkolo lip and			Bibliography.	Thèsis de Paris, 1886,	Lehrbuch, 5th edition.	Inaugural Dissert., Bonn, Posterior 1880.	
11 Schroeder.	11 operators		Operator.	13 Bar.	14 Schroeder.	Vianden.	3 operators.
11			, S	13	77	10	

TABLE II. -SUPRAVAGINAL AMPUTATIONS, SEVEN HONTES AND UNDER.

Remarks.									Aborted again in forty days, Conceived again; normal de- livery. Alive and well five	Retained placenta, which was removed next day. Pertonitis; slow recovery.
Diagnosis.	Carcinoma	3 3	ä	3	*	ä	*	*	*	*
Time of gesta-tion.	4 mos	A mos	4 mos.	7 mos.			5 mos.	0 0	2 mos.	2 mos.
Recur-	No recur- rence.	rence.	4 mos	Recurr'nce 7 mos. in 7 months	Early re-	Recurr'nce	12 months recurrence in pelvic connective		No recurrence.	Well one year after.
Result, foetus.	Lithope- No recurdion in No recur-	4 days.	4th day. Abortion in 17 days.	Abortion.	Abortion.	Abortion.	Abortion.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aborted after 35 days.	Abortion.
Result, mother	Recov- ered.	: :	7	\$	3	3	3 .	Died from opera-	Recov- ered.	*
Operation. Result, mother	Supravagi Recov- nal ampu- tation. "	3 3	9	99	:	3	3	99	**	3
Location of cancer.	Os uteri.	Portio vag- inalis.	inalis. Portio vag- inalis size	Ant. and post. lips, size of a	Portio vag-	Portio vag-	Portio vaginalis.	Portio vag- inalis.	Portio vag- inalis.	Right side, both lips.
Bibliography.	Taken from Ann.de Gyn. Os uteri, et d'Obst., Paris, 1894, xli., p.187 (C.H.Stratz). Os uteri.	Zeitschriff f. Geburt-Portio vag- shiffe und Gynäkolo-inalis, gie, vol. xii, No. 1. Portio vac-	Erlanger, 1889. (This is Portio vag-duplicate Case 11 of inalissize Wendrin's filoases.) of fist	Zeitschrift f. Geburt Ant. and shilfe und Gynäkolo- post, lip gie, 1886, Vol. Xiii.	Ibid.	Ibid.	Ibid.	Ibid.	Zeitschrift f. Geburt Portiovag- shiffe und Gynäkolo- gie, 1889, vol. xvi., and	Erlanger, 1889.
No. Operator.	Schroeder.	Stratz.	Drude.	Hofmeier.	Hofmeier.	Hofmeier,	24 Hofmeier.	Hofmeier.	Schroeder.	Drude.
No.	16			22	22	23	24	25	56	27

Carcinoma " " Pregnancy unsuspected.			Remarks,	Curetting and turning.	
	14 carcino. 2 unkno'n.	AL STATE.	Diagnosis.	Carcinoma	3 carcino.
4 mos.		VERPER	Time of gesta- tion.		
Well one 4 mos.	1 full term 2 well 1 yr. 1 lithly term 2 well 1 yr. 1 lithoped. 4 recur'nce 2 unkno'n. 7 unknown.	IX IN THE P	Recur- rence.		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Abortion, Abortion, Full term,	12 aborted. 1 full term 1 lithoped. 2 unkno'n.	OF THE CERV	Result, fœtus.	Unknown. Living.	2 D. 1 died. 1 unk'n 1 hved. 1 unknown.
3 3 3 3	15 R. 1 D.	TATION (Result, mother	Died 7 days later. Died 2 mos. after opera- tion. Not stated.	2 D. I unk'n
"" "" "" "" "" "" "" "" "" "" "" "" ""		TABLE III.—SUPRAVAGINAL AMPUTATION OF THE CERVIX IN THE PUERPERAL STATE.	Operation. Result,	Supravaginal ampuravaginal	
of seg.	16 cases.	II.—SUPRAVA	Location of cancer.	Cervix,	3 cases.
Tumor Tumor lips size lips		TABLE 1	Bibliography.	Schroeder. Geburshille u. Gyu., Xii., p. 23), taken from Ann. de Gyn. et d'Obst. Paris, 1819, Xii., p. 187. Cervix. Felsenreich. Centralblatt für Gynä. Cervix. kologie, 1884, No. 33.	
Drude. Seegelken. Lee (N. Y.) Mundé.	9 operators.		Operator.	Schroeder, Schroeder, Felsenreich.	2 operators.
30 30 31			No.	69 88 49	

VAGINAL HYSTERECTOMY.

TABLE IV. -- PREGNANT UTERUS.

iis. Remarks.		ma	Cancer large and discharging pus before operation. Uterus	partially fixed. Pregnancy unsuspected.		Vesico-vaginal fistula.		ma	ma	ma			
Diagnosis.	None.	Carcinoma	:	:	\$ 5 5 5 5 5 5 5	* *	None.	Carcinoma	Carcinoma	Carcinoma	3	3	Mone
Period of ges- tation	2 3 mos. None.	3 mos.	1 mo.	1-2 mos	2 mos.	3 mos.	2 mos.	3 mos.	2 mos.	2 mos.	3 mos.	4 mos.	
Recur rence,	Destroyed. Well after 2 years.	Well 4 yrs. 3 mos. and 4 mos.	well 4 yrs. 1 mo. after.	1-2 mos.	Well 18 mos Well 1 year 2 mos, Died in 18 3 mos, mos, recur	rence.		Died in 234 3 mos.	years.			4 mos.	
Result, fœtus.	Destroyed.	3	3	49	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* * * * * * * * * * * * * * * * * * *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
Result, mother		Recov.	•	Recov- ered.	3 2 3 3	::	::	33	:	33	3	33	
Operation. Result, mother	Vag. hys- terectomy.	99 99	=	3	9 9 9 9	::	::	33 33	33 33	39 93	33	:	***
Location of cancer.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ant. lin (incipient).	Ant. lip.	Portio vag. (incipient).	Cervix. Cervix. Cervix. Portio vag.	Portio vag. Cervix and	vagina. Portio vag.	Portio vag.	Portio vag.	Ant. wall	or cervix. Post.wall of cervix and	roof vagina	
Dibliography.	Berliner klinische Woch- enschrift, 1887, No. 22.	Zeitschrift f. Geb'rtshilfe Ant. liv und Gynäkologie, 1892, (incipient)	vol. xxiii., Krukenberg Archives f. Gynäkologie, Ant. lip. 1889, vol. xxxvi., No.3.	Zeitschrift f. Geburt-Portio vag. shilfe, und Gynäkolo (incipient).	Krukenberg Ibid., 1892, vol., xvii. (Cervix. Krüg. Ibid. (Krukenberg). (Cervix. Taylor. Med. Record, Feb. 28, 91. (Cervix. Schrebe. Halle-Wittenberg.) Bortio vag. Halle-Wittenberg. 1893.			Frauenartz, July, 1886.	Greig Smith Bristol Lancet, 1887.	M	Halle, 1859. Ibid.	Ibid.	
Operator.	Kottbus.	Hofmeier.	Münch- meyer.	Gusserow.	Krukenberg Krüg. Taylor. Schrebe.	Mursinna. Billroth.	Taylor. Hofmeier.	Thiem.	Greig Smith	Bresmecke.	Bresmecke.	Kallenbach.	
No.	58	36	22	38	80 14 45 45	43	45	47	30	49	20	21	

300d he'lth 2 mos (Carcinoma poar later afterward. 3% mos Carcinoma Pregnancy unsuspected.		D.	Remarks,		Furning.			
Good he'lth 2 mos. Carcinoma 1 year later Well I7 mos 33% mos Carcinoma afterward.	18 carcinoma. 1 epithel. 4 unknown.	TABLE VVAGINAL BYSTERECTOMY ANYER ARTIFICIAL ABORTION OR IN PUERPERAL PERIOD.	Diagnosis,	None.	Carcinoma Turning.	3	79	2
2½ mos 4½ mos 2 mos.		IN PUER	Period of gestation,		6 mos.	•	:	*
		SORTION OR	Recur- rence.		•			*
ered.	Destroyed,	RTIFICIAL AI	Result, foctus.	Dead.	*			
	21 rec. 2 unk'n	AN YER A	Result, mother	Recov- ered.	3	=	33	3
Tag, hys.	23 cases.	TERECTOMY.	Operation. mother	Vag. hyst. 14 dysafter artificial	Vag. hyst. 20 dys after artificial	abortion. Vag. hyst. dur. puer-	Vag. hyst.	Vag. hyst. 17 dys after abortion.
مَحْ مَعْ مِحْ		AGINAL BYST	Location of cancer.	Portio vag.	Portio vag.	Portio vag.		
Vander Veer Journ. Am. Med. Assoc., Ant. lip. Spencer Med. Chir. Trans., Lond., Portio vag. Wells. Gyn. et d'Obst., Laris, 1894, xili, 1895. E. Anne. de Gyn. et d'Obst., Paris, 1894, xili, 1895. Ann. de Gyn. et d'Obst., Faris, 1894, xili, 1895. Ann. de Gyn. et d'Obst., Faris, 1894, ili, pp. 81, Faris, 1894, ili, pp. 81, No. 189, p. 82s. No. 198, p. 82s. No. 198, p. 82s. Allanta, Ga.		TABLE VV	Bibliography.	Klinische Beiträge zur Portio vag, Vag, hyst, Re-ov- Gynäkologie, 1884, p. artificial artificial	Centralbl.f.Gynäkologic, Portio vag. 1887, No. 29.	lbid., 1891, No. 10.	Deutsche med. Wochen. Cervix.	62 Krukenberg, Zeitschrift f. Geburt- Post, lip. shilfe und Gynäkolo- gie, 1892, vol. xxiii.
Vander Veer Spencer Wells. Hernandez, E. Kinke.	20 operators		No. Operator.	Olshausen,	Berothod.	Loehlen.	61 Loehlen.	Krukenberg.
55 55 54 53			No.	28	529	09	61	62

TABLE V.-Continued.

Remarks,	Carcinoma Perforated child on account of exhaustion. Labor established by injection of water to which lysol had been added. Os uteri contracted around child's neck, causing its death.	
Diagnosis.	Carcinoma	5 carcino. 2 unknown.
Period of gestation.		
Recur-		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Result, fætus.	Dead,	rec. 4 dead. 3 unknown.
Result, mother	Recovered,	7 rec.
Operation. Result, mother	ie, Cervix Vag. hyst. Recov. Dead. see (incipient). dur. puer- ered. see (incipient). Peral peri'd ie, Portio vag. Vag. hyst. dollysafter delivery.	7 cases.
Location of cancer.	Cervix (incipient). Portio vag.	
Bibliography.	Centralbl.f.Gynäkologie, Cervix 1891, 32 (duplicate Case (incipient). 12 Wendriner's 61 cas's Archiv. f. Gynäkologie, Portio vag. 1894, vol. Ixvii, p. 56.	7 08868,
No. Operator.	Flore. Theilhaber.	6 operators.
No.	8 2	

TABLE VI,--VAGINAL HYSTERECTOMY, POST-PARTUM.

!	Remarks.	
	Period of ges- tation.	Carcinoma
	Period of ges- tation,	
	Recur-	Recur. in 6 months.
	Result, foetus.	Lived.
	Result, mother	Recov- ered.
	Operation. Result, Result, foctus.	Vag. hyst. 72 hours after con-
	Location of cancer.	Portio vag. nearly de- stroyed by ulceration
	Bibliography.	66 Noble, G. H. Trans. Southern Surg. Portio vag. Vag. hyst. Recov. Lived. Assoc., 1894. stroyed by after con- ulceration finement.
	Operator.	Noble, G. H.
	No.	-8

ABDOMINAL HYSTERECTOMY.

TABLE VII .- OF PREGNANCY.

	Remarks.	Epithelio'a Enchondroma of pelvis; vagi-	ing sobatation of the					No. 78. Cancer extensive; returned in several months with	cancer in intestines. Diagnosis: Ileas. Operation: Removal of diseased part of intestine and made artificial arms. Died 7 days later intestine.	Carcinoma Complicated by extrauterine pregnancy of 17 years' stand-	ing. Complicated by extrauterine pregnancy; tubal abortion 1 month; hematocele.	
	Diagnosis.	Epithelio's. Carcinoms.	99	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•		Carcinoma		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Carcinoma	99	6 carcino. 1 epithel. 9 unkno'n.
	Period of gestation.	6 mos. 3 mos.	6 mos.	6 mos.			7 mos.	5 mos.	6 mos.		:	0 0 0 0
	Recur-	In one year 6 mos.	80m 9	6 mos.			7 mos.	5 mos.	6 mos.	ANCY.		
TABLE VII. OF THEOREM	Result, foetus.	Dead,	22	2 2 3	2	::	: :	:	*	RINE PREGR Dead,	*	0
- A & & &	Result, mother	Lived.	93	Died.	ered.	Died.	Recov- ered. Coll'ose	Recov-	ered.	XTRAUTE Recov- ered.	2	9 R. 7 D.
14.00	Operation, Result, mother	Freund's.	39	2'2 3	3	* :	Freund's.	after transfusion of salines.	ting and cauteriz't'n Macken- Recov	COMPLICATED BY EXTRAUTERINE PREGNANCY, X, Abdominal Recov. Dead, hysterec- ered, ered,	tomy.	0
	Location of cancer.	Cervix. Body and	Portio vag.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ant. lip.	Cervix.	Cervix.	Cervix.	Geburt. Portio vag.	16 cases.
	Bibliography.		Centralblatt f. Gynäkol., Portio vag.	Lehrbuch d. Geburtshilfe Ibid. Centralblatt f. Gynäkol.,	Mackenrodt Archiv. f. Gynakologie,	XIIV., P. 5 Ibid. Ibid.	Fritsch. Deut. med. Wochen-Ant. lip. schrift, 1893, p. 1185. Hernandez. Ann. de Gvn. et d'Obst Cervix.	Paris, 1894, xlii. Ibid.	Ibid.	Verhandlungen des Fifth Cervix. Congresses f. Gyn., p.281.	Zeitschrift f. Geburt- shilfe und Gynäkol., vol. xxvi.	9 operators
	No. Operator.	Spen. Wells. Cittadini.	Zweifel.	Zweifel. Zweifel. stocker.	Mackenrodt			Hernandez,	Hernandez.	79 Martin.	Munt.	9 operators.
	No.	66	89	202	72	73		1	78	13	8	

Also one other case in which the operation is not mentioned (see Decorzant, Bulletin Société Anatomique, 1884, p. 260). Mother died.

CÆSAREAN SECTION, CONSERVATIVE, AND COMBINED WITH OTHER OPERATIONS.

TABLE VIII, -CONSERVATIVE, OR AFTER SÄNGER.

Operator. Bibliography. Location Operation. Result, feetus, feetus, rence. [attion.] Result, feetus, rence. [attion.] Res											
Ann. de Gyn. et d'Obst., Cervix. Paris, 1894, xii., p. 187. Centralbl. f. Gyn., 1888, descrion, post. regina. Brit. Med. Journ, 1883, Cervix and dyn., 1887, vol. xxx. Centralblatt f. Gyn., 1888, Cervicis and vol. xxxi. Cervix and dyn., 1888, Cervicis and vol. xxxi. Rescrion. Braunswig, Archiv. f. Gervix. Gervix and dyn., 1888, Cervicis and vol. xxxi. Cervix and dyn., 1888, Cervicis and vol. xxxii. Rescrion. Brit. Med. Journ, 1889, Cervix and dyn., 1887, vol. xxx. Cervix and dyn., 1888, Cervicis and vol. xxxii. Rescrion. Died 3 hrs. Cervix and dyn., 1889, Cervicis and dyn., 1889, Vol. xxxii. Archiv. f. Gyn., Cervix and dyn., 1889, Cervicis and tre part, ton of of tunor dyn., 1889, No. 2. Archiv. f. Gyn., 1889, Uterus and tre part, ton of of tunor dyn., 1889, No. 2. Archiv. f. Gyn., 1889, Uterus and tre part, ton of of tunor dyn., 1889, No. 2. Archiv. f. Gyn., Cervix. Revies Obstetrique, Ap., Cervix. Revies Obstetrique, Ap., Cervix. Revies Obstetrique, Ap., Cervix. Cervix., No. 2. Archiv. f. Gyn., Cervix. Cervix., No. 2. Cervix., No. 3.	Operator.		Bibliography.	Location of cancer.	Operation.	Result, mother.	Result, fœtus.	Recur-	Period of ges- tation.	Diagnosis.	Remarks.
	Schroeder.		Ann. de Gyn. et d'Obst., Paris, 1894, xli., p. 187.	Cervix.		Died 2 days after oper.	Lived 2 months.			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Schroeder.		Centralbl. f. Gyn., 1888,		99 99		Dead.		:		
Recovered Reco	Grapow.		Zeitschr. f. Geburtsh. u.			Death from	Lived.	:	:	Malignant	
	Morris.		Brit. Med. Journ., 1883, vol. i.	Cervix and		Recovered.	*			Carcinoma	
	Ehlers.		Braunswig, Archiv. f. Gyn., 1887, vol. xxx.	of vagina Cervix, uterus and		3	*		•	2	Operation done 18 hours after labor began; convalescence
december Trom oper Dead. Dead. Dead. Dead. Dead. Dead. Dead. Dead. Dead. Carcinoma Deat. Dead. D	Bar.		Archiv. f. Gyn., 1887.	vagilla.	2	Died 3 hrs.	*			Osteo-car-	norman.
Archiv. f. Gyn., 1889, Cervicis arter data. Died after Lived. Vol. xxxiii. Centralblatt f. Gyn., vesice. Section. 1889, No. 44. Königsberg, 1890. Archiv. f. Gyn., 1899, Uterus and vesices. Lived. Archiv. f. Gyn., 1899, Uterus and after peritonitis. Archiv. f. Gyn., vol. Carcinoma after peritonitis. Archiv. f. Gyn., vol. Carcinoma Cessresin. Died in 21 Lived. Archiv. f. Gyn., vol. Carcinoma Cessresin. Died in 22 Sweeks. Revue Obstetrique, Ap.), Cervix. 1499.	Berthod.		Centralblatt f. Gyn., 1887, No. 29.	Cervix and	one hour	rom	Dead.	:		pelvis. Carcinoma	
Centrablatt f. Gyn., Cervix. i. Cervix. i. Centrablatt f. Gyn., Cervix. i. Centrablatt f. Gyn., Cervix. i. Centrablatt f. Gyn., 1889, Cervix. i. Centrablation f. Centr	usk (N.Y	~	Archiv. f. Gyn., 1888,	Cervicis	Cæsarean		Lived.	:		33	Connective tissue infiltrated;
"" "" Died 2 days Died. "" "" Died 2 days Died. "" " Died in 21 Lived. "" "" "" "" "" "" "" "" "" "" "" "" ""	Merkel.		Centralblatt f. Gyn., 1889, No. 44.	Cervix and roof of		Died 6days Sup, peri-		:	:	2	condition unravorable, Parametric connective tissue infiltrated.
after part! days, days. Lived. days. cenoval 7 days. Cesarean, Died 3 mos. Died in Sünger. of hemor. 2 weeks. die ii. Lived. Lived. Lived.	Solzmann.		Königsberg, 1890.	vagina, Cervix, tuberous		tonitis. Died 2 days peritonitis.	Died.			3	Condition unfavorable.
Des. before Cessrean, Died 3 mos. Died in Sänger, of hemor. 2 weeks, Lived. Lived.	Teufel.		Archiv. f. Gyn., 1889, vol. xxvi., No. 2.	Uterus and vagina.		Died in 21 days.	Lived.			3	Connective tissue infiltrated.
ii Lived. Lived.	Teufel.		Archiv, f. Gyn., vol.		mos. before	Died 3 mos.	Died in			=	
	93 Parak.		Revue Obstetrique, Ap'1, 1861.	Cervix.			Lived.			3	

							Operation after 16 hours of labor	patts.					
Carcinoma	3	3	2	100	33	3	3	2	:	2	2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		:	:	:		:		:	:				
-	•	:	:	:	:	:			:		:		
Lived.	3	:	**	3	3	97	99	**	99	39	99	19	25 children. 23 living. 2 dead.
		Died 15 dys	Ç.o	Died.	Recovered.	Died 6 days	Died 8 days	Died 2 dys,	bied-2d dy,	peritonitis. Lived.	Lived.	Died 24 hrs, exhaustion	17 died. 7 recov. 1 died be- fore oper. 1 not men- tioned.
arean,	Sänger.	23	3	*	9.9	3	33	99	93	3	39	2	ases
d Cæs	- P	ಕ್ಷ	30	э р	93	=	d G	3	=	3	"	=	26 0.
Cervix an	vagina. Cervix, bladd'r and parametric	con, tissue. Cervix and	Portio vag-	Uterus and	Cervix.	,,	Cervix an	vagina,	99 99	33 33	99 99	2	6 limited to cervix. 18 involving neighboring structures 2 not mentioned.
L'Abeille Médicale, Ap'l, Cervix and Cæsarean,	1891. Frommel's Jahresber- icht, 1887, p. 221.	platt f. Gyn., 1891,	4	Revaista Medica de	Pragaro. Pragical. Wochen, Cervix.	Nederl. Tjidschrift von	Genessk, 1888, No. 2. Munchen, med. Wochen., Cervix and	Ĭ	H	Frommel's Jahresber-	Frommel's Jahresber-	Chauté Annalen, vol. xiv.	
94 [Jeannel.	Lusk.	Bagdonick.	Gueniot,	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Munk.	Mende	Merkel.	Klingelhö-	fer. Solzman.	Goodell.	Pawleck.	Meyer.	21 operators
16	95	96	97	86		301	101	102	103	104	105	106	

TABLE IX. -- CASSAREAN SECTION ACCORDING TO PORRO.

Remarks.	Carcinoma Left section of the pelvis infil-	Insane after 14 days from chron-	ic accidents.			Extended infiltration,	tympania uteri.	Tuguilan Stantas intituavou.				
Recur. of ges. Diagnosis.	Carcinoma	3	3	2			3	9	2	93	3.	
Period of ges- tation.	:			:								
Recur-		:		Metas-	4 mos.	,	:					
Result, fœtus.	Lived.	Normal for Unknown.	Lived.	H			Lived.	Dead.	Lived.	Lived.	Dead.	6 recov'd. 3 died. 1 unknown.
Result, mother	Casarean, Recovered, Lived.	Normal for	Died.	with inver-afterwards 1 live			Died in 4	Recovered Dead.	Died in 6	Died in 7	peritonitis Died in 3 days.	5 recov'd.
Operation.	Cæsarean,	rorro.	27 77	with inver-	sion of	to vagina	Casarean, Died in 4	rorro,	10 11	2	:	9 cases.
Location of cancer.	Vagina.	Cervix.	,,	33			23	Cervix and roof of	Cervix.	Cervix and	vagina. Cervix.	
Bibliography.	Archiv, f. Gyn., 1890, vol. Vagina.	AXXVII. INO. 2.	Petersburg, Gyn., 1888,	Petersburg. Gyn., 1889, vol. xxxvi. No. 2.			Tubingen, 1890.	Archiv. f. Gyn., 1889, vol. Cervix and xxxvi. No. 2.	Deutsche med. Wochen., Cervix.	Moscow, Ibid.	Frommel's Jahresber- icht, 1819, p. 313.	8 operators. 9 cases.
No. Operator.	107 Leopold.		7	H0 Beaucamp.			111 Clauss.	•	Sutergin.	114 Sutergin.	115 Murphy.	8 operators.
No.	107	108	109	110			111	112	113	114	115	

TABLE X .- CASAREAN SECTION ACCORDING TO FREUND.

	ks.	k and anemic; ult on account Itration,						days of labor		
	Remarks.	Carcinoma Patient very weak and anemic; operation difficult on account of extended inflitration.	Temp. 39.5° C.					Operation after 7 days of labor	pains.	
	Diagnosis.	Carcinoma	13	=	3	ä	ŧ	2	3	
	Period of ges- tation.					:	:	:	:	
	Recur- Period of ges-rence, tation.					:		:		
	Result, fœtus.	Lived.	Dead.	Lived.	Lived.	Dead.	Lived.	Dead.		4 recov'd. 3 died. 1 unknown.
	Result, mother	Died in 9 hours.	Died in 1 Dead.	Recovered in 2 mos.	Died in 8	Died in 5 hours, pe-	ritonitis. Recovered. Lived.	Died 4th dy Dead.	Recovered.	
	Operation.	Cæsarean, Freund.	99	99	22 22	3	33 33	99 99	and by va-ginia.	3 recov'd.
	Location of cancer.	Cervix.	z	Portio vag.	Cervix.	Cervix and lower part	of uterus. Cervix.	*		1
	Bibliography.	Zeitschrift f. Geburt. Cervix. shilfe und Gyn., 1884, vol. x. Gönuer.	117 Schroeder. Ibid, 1886, vol. xii. Stratz	Centralblatt f.Gyn., 1892, Portio vag.	Zeitschr. f. Geburtshilfe Cervix.	Centralblatt f. Gyn., 1886, Cervix and p. 10.	Ibid, 1892, No. 6.	Frommel's Jahresber-	Ann. de Gyn. et d'Obst., Paris, 1894, xlii., p. 196.	7 operators. Scases.
	No. Operator.	116 Bischoff.	Schroeder.	118 Fritsch.	119 Gönuer.	Schroeder.	121 Möller.	122 Fochier.	123 Hernandez,	7 operators.
-	No.	116	111	118	119	120	121	122	123	

OPERATIONS, INTRA-PARTUM.

TABLE XI .- DELIVERY BY FORCEPS-WITH PREVIOUS OPERATION.

Remarks.	bied in two Atterm Careinoma Severe hemorrhage.	Severe bleeding.	Carcinoma Puerperal fever.	Vaginal bystcrectomy during puerperal period; recovered.	
Period of ges- tation.	Carcinoma		Carcinoma	*	3 at 9 m 3 carcino.
Period of gestation.	Atterm	3	*	4 weeks before full term.	3at9m 1at8m
Recur-	Died in two years.			:	
Result,	Dead.	Lived.	Lived.	Recovered, Recovered,	3 lived. 1 died.
Result, mother	Recovered.	Died in 12 hours.	Curetting. Recovered Lived.	Recovered.	8 recov'd. 8 lived. 1 died.
Operation.	Incisions.	Incisions, bleeding.	Curetting.	Forceps, without previous operation	4 cases.
Location of cancer.	Cervix and roof of	vagina. Portio vag- inalis,	•	5.0	
Bibliography.	Minchener medicin. Cervix and Incisions. Recovered. Dead. isone, Wochenschrift, roof of	Josh Centralbi, f. Gym., '88, No. Portio vag. Incisions, Died in 12 Lived, 43 (duplicate Case 38, inalis.	Wendriner's 61 cases). Ann. de Gyn. et d'Obst., Paris, 1894, xli., p. 187.	Centralbl. f. Gyn., 1891, Post. lip, size of goose eg	4 cases.
No. Operator.	124 Merckel.	Fischer.	Schroeder.	127 Lochlein,	4 operators,
No.	124	125	126	127	

AMPUTATION ANTERIOR LIP (INTRA-PARTUM).

Remarks.	Carcinoma Subsequent vaginal hyster- ectomy; recovery.
Period of gestation.	Carcinoma
Period of gestation.	Full Cs
Recur-	
Result,	Amputat'n Recovered, Mutilated; anterior dead, ilip by light anneed, attrace & tampon.
Result, mother	Recovered,
)peration.	Amputat'n anterior lip by lig- atures & tampon.
Location of cancer.	Cervix.
Bibliography.	Sorgelken, Jena, 1892. Cervix.
Operator.	128 Skutsch.
No.	128

TABLE XII, -REMOVAL OF TUMORS-INTRA-PARTUM.

Remarks.						
Period of ges. Diagnosis.	Carcinoma	Carcinoma	Carcinoma	Carcinoma cauliflower	Carcinoma	5 carcino.
Period of gestation.					•	
Recur-	Recov. Recov. Died ten ered. ered. after, after,	Recov. Dead, Well two ered.		Lived, Lived, Well in four w'ks	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 recov, 4 lived, 3 recover'd 2 died, 1 died, 2 unknown.
Result, child.	Recov- ered.	Dead.	Lived.	Lived.	Lived.	4 lived.
Result, Result, mother child.	Recov- ered.	Recov- ered.	Died in Lived.	Lived.	Died. Lived.	3 recov.
Means of removal.		Partial removal before birth; forceps and thermo caustic.	Cervix and Removed before vagina, delivery by means of cutting forceps.	At full term by thermo-caustic; labor pairs three days after,	Portio and Partial removal, vagina. ceps.	
Location of tumor,	Cervix and	Cervix.	Cervix and vagina.	T 25 C	Portio and vagina.	5 cases.
Bibliography.	Zeitschrift f. Geburt Cervix and Spoon, forceps, shille und Gyn., vol. x. vagina. and galvano. No. 1.	Ibid.	Ibid,	Breslavier ärztliche Zeit- Post. Jip schiff, 1880, 4. vagina(siz goose egg	Arztliches Intelligenz Blatt., 1884, p. 533.	3 operators.
No. Operator.	129 Gönuer.	Gönuer.	Gönuer.	Wiemer,	Schmitt.	3 operators.
No.	129	130	131	132	133	

TABLE XIII. -INCISIONS OF CERVIX.

Remarks.	Carci. Sponta-Parametritis; pneumonia.			Tampon,	Dilation by hand; os rigid; perforation; skull bones removed; large anterior rupture of cervix, bladder into abdominal cavity;	K	luse.	
Birth.	Sponta- neous.	Forc'ps	Turn-	Sponta- neous.	Turn-	Extrac- tion.	Turn-	
Diag- nosis.		Carci- noma.			Carci- noma.			3 carci. 4 unkn.
Period No. of Diag- of ges. hours nosis.	8 days.	:	36 hrs.	1½ da's.	:	6 days.		
Period of ges-		:					61/2 mos	
Recur.	Meta- static forma-	tions.					6½ mos	
Result,	Dead.	Living.	Twins; lived.	Dead.	Dead.	Dead,		g recov 5 died.
Result, Result, Recurmenter child, rence.	Died in 5 weeks	Died in Living.	anemia Lived.	Lived Dead.	Lived Dead.	Died in Dead. 2 brs.	Perito- Dead, nitis; recov.	5 recov 3 recov 2 died.
Incisions.	2 incisions. Died in Dead.	Incisions.	Deep inci- sions.	Incisions.	Incisions.	Incisions.	Incisions.	
Location of cancer.	Cervix, deep.	Gyn., Portio vag- Incisions.		Cervix and	gua. Cervix, polypus, lower part of cervix gone.			0
Bibliography.	Berlin, 1881.	Centralblatt f. Gyn., 1883, No. 43,	Correspond der schweit. Cervix.	Centralblatt f. Gyn., Cervix and Incisions. 1889, No. 44.	Zeitschr. f. Geburtshilfe (Sura., und Gyn., 1890, vol., polypu xviii.	Centralblatt f. Gyn., 1890, Cervix.	Bar Thèsis de Paris, p Cervix.	7 operators 7 cases.
No. Operator.	134 Brandt.	Fischer.	Striger.	Merckel.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	139 Bousquet.	140 Laguel.	7 operators
No.	134	135	136	137	138	139	140	

TABLE XIV .- MISCARRIAGE, ARTIFICIAL OR INI UCED,

Remarks,	Conceived 4½ mos Carcinoma Removed carcinoma, size of and deliveragain systems again systems again sharer; full	Birth spontaneous seventh day; deep rupture of cer- vix; childbed normal; cu-	rette and cautery. Childbed normal.	Vaginal hysterectomy in puerperal period.	Fever.	
Diagnosis,	Carcinoma					l carcino. 4 unknown.
Period of ges- tation.	4½ mos	6 mos.	5 mos.	:		
Recur-	Conceived and delivered again 3 years later; full	6 mos.		•		
Result, foetus.			Living	Dead.	Dead.	2 dead. 1 lived. 2 unkn ,
Result, mother,	Recovered,	Recovered.	Recovered.	Recovered.	Died in 4 weeks of puerperal fever.	4 recovered 1 died.
Operation.	Recovered.	Vagina and Recovered	Recovered, Living foetna	Perforation of dead child on account of	Perforation of dead child,	4 recovered 2 dead. 1 died. 1 lived. 2 unkn 4
Location of cancer.	Cervix.	Vagina and uterus.	Cervix.	Cervix (incipient).	Cervix and Vagina	5 cases.
Bibliography.	Zeitschrift f. Geburtsh. Cervix. und Gyn.,vol. x., No.1.	Tübingen, 1890.	Ibid.	Centralblatt f. Gyn., '91, Cervix (in-Perforation of Recovered, Dead, duplicate 32, Wend-cipient), dead child on riner's 61 cases.	Inaugural Dissertation, Cervix and Perforation of Wurzburg, 1884.	, 5 cases.
No. Operator.	141 Gönuer.	142 Clauss.	143 Clauss.	144 Floel.	145 Heilbrunn,	4 operators.
No.	141	142	143	144	145	

EXPECTANT PLAN OF TREATMENT.

TABLE XV. - SPONTANEOUS EVACUATION OF UTERUS.

No.	Attendant,	Bibliography.	Location of cancer,	Accidents Result, Result, or complinations. mother child.	Result, I	Result,	Recur. of gesrence. tation.	Period of gestation.	Diagnosis.	Time in labor.	Remarks,
911		Correspond, du Schwei-Post, lip & Deep rupzer Aerzle, 1890, vol. xx. right side. ture of	Post, lip & right side.	Deep rup- ture of	Recov- ered.		In 1 mo		Carcinoma	21/2 dys.	Carcinoma 2½ dys. Spontaneous birth; cure'te and cautery; childbed
147	Schroeder.	Zeitschrift f. Gebert- shilfe und Gyn, 1892,	0	cervix.	:		Died in 8 mos.	3 mos.	*	:	Recurrent cancer; ant. lip amputated 4 years before.
148		Vol. XXIII. Ibid.	Portio vag		91	:	None.	:	ä	:	Died of peritonitis from sub- sequent vaginal hysterec-
149	Salzmann,	Königsberg, 1890.	Cervix and neighbori'g tissue pos-		•	Dead	Not ob- served.	:	4	4 days.	tomy.
150	Brandt.	Berlin, 1881.	teriorly.	Cervix rup- tured in six parts	;	Lived, None,	None.		3		
151	Bileted.	Centralblatt f.Gyn., 1884, Cervix.	Cervix.	by traction on foot.	*	Much	Much worse 2	:	9		Futile attempt to use for- ceps; turning.
152	Floel.	Coburg, Centralblatt f. Cervix. Gyn, 1896, No. 32.	Cervix.	Placenta previa.	3	:	ins lar r	:	*	:	Escape of waters five days without Inbor pains; turning futile; perforation;
153	Döhlein.	Deut, med, Wochen-	Cervix.	Fever,	3	:	None.		3	:	subsequent amputation and hysterectomy. Subsequent vaginal hyster-
154	Sergelken.	Jena, 1893.	Cervix.		,	:	Died in	:	9 9		Subsequent vaginal hyster-
155	Heinricius.	sper-	Anteriorlip		, ,,		Died in	:	33		Amputation portio vagi-
156	156 Perschin.	loid, 1890.	(extensive)		š	:	Is mos.	:	3		Amputation anterior lip; re- currence on posterior lip;
				_		-		_			covery.

Recov. Lived. Died in Careinoma Supra-vaginal amputation of portio vaginalis. Died Died None.	Version and extraction.	Lived, Recur. Papilloma Vaginal hysterectomy; re- covered. 5 mos 59% hrs	Amputation, fifth week afterward, of portio vagi-	Curette and cautery.			
		29½ hrs					
Carcinoma "	3	Papilloma	Careinoma (cauliflowr)	33	2	2	mas. 1 papil- foma. 4 unknown.
		5 mos.	4 mos.	4 mos.	7 mos.	6 mos.	
Died in 2 mos. None. None.	Died in 1 mo.	rence. 5 mos.	None in 3 years.	:	Metas- 7 mos.	Died in 2 mos.	
Lived. I	Died Died in (mace-l mo. rated).	Lived.	None in 4 mos. 3 years.	:	Died some	Ω	19 rec. 5 rec. 2 died, 5 deaths
Recov- Lived. ered. Died Died. next dy Died.	Recov- ered.	3 3	3	33	Died in 3 mos.	Died in 2 mos.	2 died,
Becovered. Died. Deep rup- ture of	Cervix. Recov- Died Died in ered. (mace- 1 mo. rated).	Cervix.	OI HABEE				
	Cervix.	Cervix.	Portio vag.	appie. Cervix.		Cervix (extensive.	•
Stratz. Zeitschrift f. Geburtsh. Icervix. 158 Hooper, J.W.D. Australian Med. Journ., Cervix. 189 Stephens, I. P. Allanta, Ga. Seen by Cervix. the writer.	Ann. de Gyn. et d'Obst., Cervix. Paris, 1894, xli., p. 187.	Amer. Journ.Obst., N.Y., Cervix. 1893, xxvii., 515. Tübingen, 1890.	Weiner medicin, Presse, Portio vag. 1883, p. 34.	Ann. de Gyn. et d'Obst.,	Tatris, 1894, pp. 81-97-187	Ibid. (Hernandez, E.)	21 cases.
Stratz. 157 Stratz. 158 Hooper,J.W.D. 159 Stephens, L.P.	Schroeder.	Coe, Clauss,	Felsenreich.	Schroeder.	Mackenrodt.	166 Mackenrodt.	18 reporters,
157 158 159	160	161	163	164	165	166	



